WHAT IS CLAIMED IS:

1	<i>J.</i> /	A method of purifying used oil comprising the steps of:
2		placing used oil into a continuous flow apparatus;
3	`	contacting the used oil with a base introduced at such a rate as to maintain
4		the base at about 1 weight % to about 10 weight % of the oil composition;
5		contacting the used oil with a phase transfer catalyst introduced at such a
6		rate as to maintain the phase transfer catalyst at about 2. weight % to about 10
7		weight % of the oil composition;
8		heating the composition to a temperature between about 200°C and about
9		275°C;
0		mixing the composition;
1		separating the resultant mixture using a first distillation at a temperature of
2		from about 200°C to about 275°C and a pressure of from about 100 torr to about
3		200 torr; and
4		purifying the used oil using a second distillation at a temperature of from
5		about 275°C to about 300°C and a pressure of from about 0.05 torr to about 0.20
6		torr.
1	2.	The method as recited in Claim 1 additionally comprising the step of:
2		heating the oil composition obtained from the first distillation to a
3		temperature between about 200°C and about 300°C; and
4		mixing the composition after the first distillation but before the second
5		distillation.
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1	3.	A method of purifying used oil comprising the steps of:
2		placing used oil into a continuous flow apparatus:

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contacting the used oil with a base selected from the group including 3 sodium hydroxide and potassium hydroxide introduced at such a rate as to 4 maintain the base at about 1 weight % to about 10 weight % of the oil 5 composition; 6 7 contacting the used oil with ethylene glycol introduced at such a rate as to maintain the phase transfer catalyst at about 1 weight % to about 10 weight % of 8 9 the oil composition; heating the composition to a temperature between about 200°C and about 10 275°C; 11 mixing the composition; 12 separating the resultant mixture using a first distillation at a temperature of 13 from about 200°C to about 275°C and a pressure of from about 100 torr to about 14 200 torr; and 15 purifying the used oil using a second distillation at a temperature of from about 16 275°C to about 350°C and a pressure of from about 0.05 torr to about 0.20 torr. 17

